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(21) International Application Number: PCT/US98/14336 (22) International Filing Date: 10 July 1998 (10.07.98)		(74) Agents: STORELLA, John, R. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).																			
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(71) Applicants (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES, represented by THE SECRETARY DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Suite 325, 6011 Executive Boulevard, Bethesda, MD 20892 (US). GENENTECH, INC. [US/US]; 1 DNA Way, South San Francisco, CA 94080 (US).		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.																			
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(54) Title: PSEUDOMONAS EXOTOXIN A-LIKE CHIMERIC IMMUNOGENS FOR ELICITING A SECRETORY IGA-MEDIATED IMMUNE RESPONSE																					
<p>(57) Abstract</p> <p>This invention provides methods of eliciting a secretory IgA-mediated immune response in a subject by administering a <i>Pseudomonas</i> exotoxin A-like chimeric immunogens that include a non-native epitope in the Ib domain of <i>Pseudomonas</i> exotoxin. Compositions comprising secretory IgA antibodies that specifically recognize an epitope of HIV-1 also are provided.</p>																					
<p style="text-align: center;">1 A Pseudomonas exotoxin 1 B V3-loop toxin chimera</p>																					
<p style="text-align: center;">1 C</p> <table border="1"> <thead> <tr> <th>Protein</th> <th>Ib Loop Region Amino Acid Sequence</th> <th>Molecular Mass</th> </tr> </thead> <tbody> <tr> <td>wild-type PB</td> <td>GAANADVVSLTCPVAAGECAGPAD-</td> <td>67,122 Da</td> </tr> <tr> <td>ntPB-V3MN14</td> <td>GAANLHCHCGIHIGPGRAFYTTTKCMQGPAD-</td> <td>67,729 Da</td> </tr> <tr> <td>ntPB-V3MN26</td> <td>GAANLHCNYNKRKRRIHIGPGRAFYTTTKNIIGTICMQGPAD-</td> <td>68,937 Da</td> </tr> <tr> <td>ntPB-V3ThE26</td> <td>GAANLHCSNNTRTSTIGPGQVFYTTGDIIGDDICMQGPAD-</td> <td>68,700 Da</td> </tr> <tr> <td>ntPB-PP16</td> <td>GAANLQCRLEEEKKGNYVVTDHRLCQGPAD-</td> <td>67,862 Da</td> </tr> </tbody> </table>				Protein	Ib Loop Region Amino Acid Sequence	Molecular Mass	wild-type PB	GAANADVVSLTCPVAAGECAGPAD-	67,122 Da	ntPB-V3MN14	GAANLHC H CGI H IGP G RAF Y TT T KCMQGPAD-	67,729 Da	ntPB-V3MN26	GAANLHC N YNKR K R R I H IGP G RAF Y TT T K N I I G T I C MQGPAD-	68,937 Da	ntPB-V3ThE26	GAANLHC S NNTR T S T I G PG Q V F Y T T G D I I G DD I C M QGPAD-	68,700 Da	ntPB-PP16	GAANL Q CRLE E EKK G NYV V TD H R L C Q GPAD-	67,862 Da
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